

## **Invariant Subspace Theorem for L-weakly and M-weakly compact operators**

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Some of the subclasses of weakly compact operators defined on a Banach lattice are known as L-weakly and M-weakly compact operators. We deal with the existence of invariant subspaces for bounded operators related to L-weakly and M-weakly compact operators. In this seminar, we will present some elementary results about invariant subspaces of a bounded operator which commutes with any L-weakly or M-weakly compact operator. Also, we will provide some compactness properties of these operators. This is joint work with Cevriye Tonyalı.